GRNRVLD16 LDW_08

LDWG AOC3 database found on LDWG.org. Tables: Upstream Solids USGS field data pull from station 12113390

AQ Scripts in order of execution

USGS_data_pull_12113390_All.xlsx
Miscellaneous data were pulled from PDF source documents for studies (links below)

2 Scripts in order of execution

(Wiplamchor/Posts/byte of Seattle)(60003-01 East WW SRI_FS\PP RODI/Anthropogenic\A8 Meeting 3 - Gireen\Scripts s_wrangle-01.pmb

s_wrangle-01.pmb

(Walland-of-Posiest-byte) of Seattle)(60003-01 East WW SRI_FS\PP RODI/Anthropogenic\Analysis\Scripts EPA Memo Appl Intel distribution) of the Seattle)(60003-01 East WW SRI_FS\PP RODI/Anthropogenic\Analysis\Scripts EPA Memo Appl Intel distribution)

3/4/2021
Database files developed by Anchor QEA (AQ) for the Green River inputs to the East Waterway Anthropogenic Background determination. Data has been compiled from multiple sources and cleaned for consistency between datasets. Data have been combined from raw source files with Python scripts. Quality control chees have been performed on these large and varied datasets, however, if there are any data issues, please contact glorundhors glavandereaces on with any questions.

Data Files The suspended solids database compilation consists of 3 files: Final_dataset_2021-02-7 also includes the concentrations for the final anthropogenic background dataset. Total PCBs Congeners, Dioxin/Furan Ficb, Asseci, 12,33,34-9CDD, 2,34,78-9CDD, 2,37,8-TCDD, and 2,37,8-TCDF. Additional details provided in the column descriptions to the right. GreenSuperndedSedSummary_2021-03-28.sixs includes the concentrations for Total PCBs Congeners, Total PCBs Arodors, Down/Furan TEQ, and Assertic, doiny of sample information (e.g., Green River Rlow designation at the time of sampling). Additional details provided in the column descriptions to the right. GreenSuspendedSedAE_2021-01-28.abs includes the concentrations for Total PCBs Congeners, Total PCBs Aroctors, Dioxin/Furan TCQ, and Assenic, and PCB and Dioxin/Furan congeners. Note that PCB congener nomencitator is based on the source database and is not globally consistent. Additional details provide in the column descriptions to the right. Represented studies LDGW AOC3 Compilation of Existing Data and Data Evaluation Report (Compiled Suspended Solids) https://ldwg.org/project-library/ King County 2016 (Suspended Solids) https://green2.kingcounty.gov/sciencelibrary/Document.aspx?ArticleID=410 USGS 2018 (Suspended Solids) https://pubs.usgs.gov/sir/2018/5133/sir20185133.pdf https://pubs.er.usgs.gov/publication/ds973 https://pubs.er.usgs.gov/publication/ds1073 Ecology Contaminant Loading to the Lower Duwamish Waterway from Suspended Sediment in the Green River (Suspended Solids) https://apps.ecology.wa.gov/gsp/DocViewer.ashx?did=40980 Data sources EIM download for the following study IDs: GRNRVLD13 GRNRVLD14

Data File Column Descriptions

Final_dataset_2021-02-2	7.xlsx Description	GreenSuspendedSedSumi Column Name	mary_2021-01-28.xlsx Description	GreenSuspende Column Name	dSedAll_2021-01-28.xlsx Description
Research_Lead	Research entity that conducted the study	Research_Lead	Research entity that conducted the study. Note KC and USGS samples collected at RM 10.4 and ECY samples collected at RM 6.8	Task	Database task code
Sample_Name	Sample ID	Sample_Name	Sample ID	Research_Lead	Research entity that conducted the study. Note KC and USGS samples collected at RM 10.4 and ECY samples collected at RM 6.8
Sampling_Method	Sampling method used	Matrix	Suspended solids	Location_Name	Database location code
Chemical	Chemical	Sampling_Method	Sampling method used	Sample_Name	Sample ID
Value	Concentration. Total PBCs based on sum of detected congeners. For Dioxin/ furan TEO, TEQ calculated based on the mammalina TEFs (Van den Berg et al. 2000) uning 1/2 the detection limit for NDs. Fines-normalized concentration for organics: Total PCBs Congeners, Doxin/Furan TEO, 12,3,7,8-PCDD, 32,3,7,8-PCDD, 32,7,8-PCDD, and 2,3,7,8-TCDF.	Start_Date	Date and time at the start of sampling or field deployment. Values populated from reports if not present in the source database.	Matrix	Suspended solids
Unit	Concentration unit, dry weight base or fines-normalized. Flag for detections. Total and TEQ would be non-detect ("No") if all summer	Sample Date	Date and time of sample collection at the end of sampling	Sampling Method	Sampling method used
Detected		Sample_Duration_days	Duration of field deployment	KC_Sample_Desc	Additional information on King County data
		Analysis_Method Chemical	Laboratory method Chemical	Start_Date Sample Date	Date and time at the start of sampling or field deployment. Values populated from reports if not present in the source database. Date and time of sample collection at the end of sampling
		Cnemical			Date and time or sample collection at the end or sampling
		Value	Concentration. Total PBCs based on sum of detected congeners or Arcdors If all Arcolors were on-ordetect, then the maximum of the detection limit was presented. For Dioxin/ furan TEQ, TEQ calculated based on the mammalina TEFs (Van den Berg et. al. 2006) using 1/2 the detection limit for NDs.		Duration of field deployment
		Qualifier	Validation or laboratory qualifier	Analysis Method	Laboratory method
		Unit	Concentration unit, dry weight basis	Chemical_Group	Chemical group
		Detected	Flag for detections. Totals are non-detect ("False") if all summed constituents are ND.	CAS_Number	Chemical CAS number
		Coelution	PCB congener coelution flag as provided by the source database. Note that nomenclature for PCB congeners is different for different databases.	Chemical	Chemical
		Fines	Percent fines for the sample	Fraction	Suspended sediment
		Fines_Unit	Percent (by volume or mass depending on the analysis)	Value	Concentration. Total PBCs based on sum of detected congeners or Aroclors. If all Aroclors were non-detect, then the maximum of the detection limit was presented. For Doisn/ furant TEC, TEC acklusted based on the mammalina TEFs (Van den Berg et. al. 2006) using 1/2 the detection limit for NDs.
		Fines_source	Source of fines information , since fines data were sometimes only available in source documents	Qualifier	Validation or laboratory qualifier
		TOC	Total organic carbon for the sample	Unit	Concentration unit, dry weight basis
		TOC_Unit	Percent	Detected	Flag for detections. Totals are non-detect ("False") if all summed constituents are ND.
		Data_Source	Source of the sample concentration data	Coelution	PCB congener boelution flag as provided by the source database. Note that nomenclature for PCB congeners is different for different databases.
		HH_Flow_sam_ave_cfs	Average flow in cubic feet per second during sampling from below the Howard Hanson dam, data from USGS, station 12105900 GREEN RIVER BELOW HOWARD A HANSON DAM. WA	Coelution	Flag for PCB congener. Note that the different datasets reported coelutions differently. $ \\$
		HH_Flow_Start_Date_cfs	Average flow in cubic feet per second on the start_date of sampling from below the Howard Hanson dam, data from USGS, station 12105900 GREEN RIVER BELOW HOWARD A HANSON DAM, WA	Fines	Percent fines for the sample
		Precip_sam_ave_in_hr	Average precipitation in inches per hour during sampling from the King County Tukwilla Rainfall Station (TUKW), data obtained from King County.	Fines_Unit	Percent (by volume or mass depending on the analysis)
		Precip_sam_12hr_ave_in_hr	Average precipitation in inches per hour during and 12 hours before sampling from the King County Tukwilla Rainfall Station (TUKW), data obtained from King County. This is analogous to the King County (2016) method for quantifying rainfall for analysis. Average precipitation in inches per hour 48 hours before sampling from the	Fines_source	Source of fines information , since fines data were sometimes only available in source documents
		Precip_antecedent_48hr_ave_in_hr	King County Tukwilla Rainfall Station (TUKW), data obtained from King County. This is analoguous to the USGS (2018) method for quantifying rainfall for analysis.	тос	Total organic carbon for the sample
		DER Event Type KC Sample Desc KC Condition KC Notes	Teminas no aliasyas Event type categorization used in the LDWG Data Evaluation Report Additional information on King County data Additional information on King County data Additional information on King County data	TOC Unit Data Source	Percent Source of the sample concentration data